

Claims

- [c1] An isolated nucleic acid having at least 80% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76);
 - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76);
 - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75);
 - (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75); or
 - (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.

- [c2] The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76);
 - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76);
 - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75);
 - (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75); or
 - (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.

- [c3] The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.

[c4]

The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.

[c5]

The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.

[c6] An isolated nucleic acid comprising:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.

[c7] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76).

[c8] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide.

[c9] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence

encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76).

- [c10] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide.
- [c11] The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75).
- [c12] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75).
- [c13] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.
- [c14] An isolated nucleic acid that hybridizes to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76);
 - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76);
 - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 76 (SEQ ID NO:76), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75);
 - (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 75 (SEQ ID NO:75); or
 - (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203247.
- [c15] The isolated nucleic acid of Claim 14, wherein said hybridization occurs under stringent conditions.
- [c16] The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.
- [c17] A vector comprising the nucleic acid of Claim 1.

